

22 DEC 2005

PATENT COOPERATION TREATY

# PC1/EP2003/01211

# Translation

# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	(I CI Aidele		
Applicant's or agent's file reference LTS 2002/006 PCT	FOR FURTHER AC		eation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP2003/012117	International filing dat 31 October 200		Priority date (day/month/year) 13 November 2002 (13.11.2002)
International Patent Classification (IPC) or no A61L 15/58	ational classification and	d IPC	
Applicant	· · · · ·		
LTS	LOHMANN THEF	RAPIE-SYSTEME	AG
This international preliminary examinated and is transmitted to the applicant action.		prepared by this Interna	ational Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets,	including this cover sh	neet.
	r this report and/or sheet	s containing rectificat	n, claims and/or drawings which have been ions made before this Authority (see Rule
These annexes consist of a to	tal of s	heets.	
3. This report contains indications relat	ting to the following iter	ns:	-
I Basis of the report			
II Priority			
III Non-establishment o	of opinion with regard to	novelty, inventive ste	p and industrial applicability
IV Lack of unity of inve			
V Reasoned statement citations and explana	under Article 35(2) with ations supporting such s	n regard to novelty, invitatement	ventive step or industrial applicability;
VI Certain documents c	rited		
VII Certain defects in the	e international application	on	
VIII Certain observations	on the international app	olication	
Date of submission of the demand		Date of completion of	f this report
10 March 2004 (10.03.:	2004)	16 Fe	bruary 2005 (16.02.2005)
Name and mailing address of the IPEA/EP		Authorized officer	
Facsimile No.		Telephone No.	

International application No.
PCT/EP2003/012117

I.	Basis	of the re	eport
1.	With	regard to	o the elements of the international application:*
		the inte	ernational application as originally filed
	$\boxtimes$	the des	scription:
		pages	1-14 , as originally filed
		pages	, filed with the demand
		pages	, filed with the letter of
	$\boxtimes$	the clai	ims:
	انكا	pages	, as originally filed
		pages	, as amended (together with any statement under Article 19
		pages	, filed with the demand
		pages	1-18, filed with the letter of07 December 2004 (07.12.2004)
		the drav	•
		pages	
		pages	, as originally filed
		pages	, filed with the letter of
	L t	_	ence listing part of the description:
		pages	, as originally filed
		pages	, filed with the demand
		pages	, filed with the letter of
2.	the ir	nternation e element the lang the lang	o the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item.  Its were available or furnished to this Authority in the following language which is: guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).  guage of publication of the international application (under Rule 48.3(b)).
,	11/:44	or 55.3	
<b>3</b> .	prelin	minary ex	to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:
	$\vdash$		ned in the international application in written form.
	$\mathbb{H}$		gether with the international application in computer readable form.
	H		ed subsequently to this Authority in written form.
	H		ed subsequently to this Authority in computer readable form.
		internat	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.
			atement that the information recorded in computer readable form is identical to the written sequence listing has irrnished.
4.			nendments have resulted in the cancellation of:
			the description, pages
			the claims, Nos
		<u> </u>	the drawings, sheets/fig
5.		This rep	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
- 1	in thi	acement s is report 10.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16).
**	Any r	eplaceme	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.

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I.	Basis	of the	report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

The new set of claims submitted with the letter of 2

December 2004 meets the requirements of PCT Article 19(2)

because the content of claims 1-18 does not go beyond the disclosure in the international application as filed.

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4-5, 7-8, 11-12	YES
	Claims	1-3, 6, 9-10, 13-18	_ NO
Inventive step (IS)	Claims		YES
	Claims	4-5, 7-8, 11-12	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims		NO

2. Citations and explanations

The numbering of the documents is the same as in the search report.

#### 1 Novelty

The content of claims 1-3, 6, 9-10 and 13-18 is not novel within the meaning of PCT Article 33(2).

Document D2 already describes a hot-melt extruded film for the transdermal or mucosal administration of active substances, whose adhesive force develops after humidification (see column 5, lines 3-15). A film for the treatment of wounds contains, inter alia, hydroxypropyl cellulose, polyvinyl pyrrolidone, carbomer and polycarbophil, and can be connected to an overlaying adhesive patch (see example 4). A vitamin E adhesive patch against wrinkles and senile lentigo contains, inter alia, Gantrez MS-955, polycarbophil and hydroxypropyl cellulose (see example 7). The bioadhesive film also contains organic acids such as tartaric acid (see claim 1 and example 7).

Consequently, the subject matter of claims 1-3, 6, 9-10 and 13-18 is not novel.

### 2 Inventive step

The subject matter of claims 4-5, 7-8 and 11-12 does not involve an inventive step within the meaning of PCT Article 33(3).

The problem to be solved by the application is that of providing an adhesive for medical adhesive patches, which has improved adhesive properties on a moist substrate.

The solution describes the combination of a copolymer of methylvinyl ether and maleic acid anhydride (PVM/MA copolymer, Gantrez AN) with polyvinyl alcohol, a film-forming polyacrylate such as Eudragit NE 40 D or a pressure sensitive polyacrylate adhesive such as Duro-Tak. Instead of Gantrez AN the acid form of the anhydride can also be used (Gantrez S).

Document D3 is the closest prior art. Claim 3 of document D3 lists a number of polymers which can be used alone or in combination to produce moisture-activated adhesive layers. This list also comprises, inter alia, PVM/MA copolymers and polyvinyl alcohols. The examples show that combinations of, for example, Gantrez S-97 with polyvinyl pyrrolidone (example 6) or polyvinyl alcohol with polyvinyl pyrrolidone (example 1) have the desired adhesive force on a moist substrate. A person skilled in the art would therefore be motivated to combine polymers specified in the list for the production of an

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adhesive layer because he can expect this to be successful. Consequently, the content of claim 8 cannot be considered inventive because it was not found to have a surprising effect. An analogous argument applies to the subject matter of claim 12. Claim 30 of document D2 lists adhesive polymers used in moisture-activated adhesive layers. These include, inter alia, PVM/MA copolymers and acrylic polymers.

For the Examining Authority to be able to recognize an inventive step, the applicant is kindly requested to submit data which show that the present formulation has improved properties with respect to the prior art.

#### 3 Industrial applicability

The subject matter of claims 1-18 is industrially applicable within the meaning of PCT Article 33(4).